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MULTI-ELEMENT INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS OF DRILL CORE FROM THE LAKE GEORGE MINE, YORK COUNTY, NEW BRUNSWICK

David R. Lentz

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Minister of Natural Resources and Energy

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Multi-element Instrumental Neutron Activation Analysis of Drill Core from the Lake George Mine, York County, New Brunswick

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ABSTRACT

The re-analysis of 190 archived crushed samples from an earlier gold study at the Lake George Mine using Instrumental Neutron Activation Analysis (INAA) has indicated that the samples are on average 29% higher in gold than previously reported by Fire Assay. This systematic error is typical of routine Fire Assay methods and is generally considered inferior to INAA for routine exploration work. The multi-element geochemical data obtained shows a strong association of gold with arsenic, and much less so with tungsten. The molybdenum analyses were problematic due to high background from the anomalous antimony contents. Surprisingly, Mo and W analyses were low (< 300 ppm), even though much of these samples came from the W-Mo mineralized exocontact halo of the Lake George granodioritic porphyry.

RÉSUMÉ

Une nouvelle analyse de 190 échantillons concassés et archivés provenant d'une étude antérieure de l'or à la mine du lac George, étude effectuée par activation neutronique non destructrice (ANND), a révélé que les échantillons ont en moyenne une teneur en or supérieure de 29 % aux données fournies par l'essai pyrognostique. Cette erreur systématique est caractéristique des essais pyrognostiques usuels, généralement considérés inférieurs à l'ANND aux fins des travaux d'exploration courants. Les données géochimiques sur des éléments multiples révèlent une association marquée de l'or avec l'arsenic et une association beaucoup moins prononcée avec le tungstène. Les analyses du molybdène ont posé des problèmes en raison du fond géochimique riche en antimoine anomal. Curieusement, les analyses du Mo et du W ont affiché des teneurs faibles (< 300 parties par million), même si une vaste partie de ces échantillons provenait d'un halo d'exométamorphisme minéralisé de W-Mo du porphyre granodioritique du lac George.

TABLE OF CONTENTS

Objective 1

Scope 1

Methodology 1

Results & Discussion 3

Recommendations 4

Acknowledgements 4

References 4

Appendix 1. INAA data: Drill core samples from the Lake George mine 9

Tables

Table 1. CANMET MC-2c Gold Ore Standard compared to accepted value 2

Table 2. NB Massive sulphide Ore standard (94-MS-1) compared to accepted value 2

Table 3. Correlation Coeffiecients of Au versus Sb, As, W, and Fe 3

Illustrations

Figure 1. Location and general geology of the Lake George antimony mine, New Brunswick (modified after Seal et al. 1988) 6

Figure 2 (a) Fire Assay Au (g/t) versus INAA Au (ppb), and (b) log Fire Assay Au (g/t) versus log INAA Au (ppb) for 189 samples from the Lake George mine area. One sample was not analysed by fire assay. 7

OBJECTIVES

The first priority was to re-assess the gold content of drill core sampled and analyzed previously for gold by the Fire Assay method (Morrissy 1991a) using Instrumental Neutron Activation Analysis (INAA). In most cases, INAA is known to be the most reliable (accurate and precise) analytical method for analyzing refractory gold mineralization (Hoffman et al. 1998), because no digestion procedure is involved.

Secondly, it is also important to examine the multi-element geochemical associations with gold distribution, in particular geochemical association of gold with As, Sb, W, and Mo. Ascertaining the various elemental variations with gold content is important because there are several mineralizing episodes recognized; an early W-Mo association with the Lake George granodioritic intrusion (Seal *et al.* 1987, 1988) and the later Sb (-Au) vein and polymetallic vein mineralization (Scratch *et al.* 1984; Procyshyn and Morrissy 1990). Resolving this petrogenetic association may help in geochemical exploration in southwestern New Brunswick.

Lastly, the Lake George deposits are a key example of intrusion-related gold deposits in southwestern New Brunswick (McLeod and McCutcheon 2000). As such, it is important to try to understand more about the genesis of the various styles of gold deposits in the region so that it contributes to our understanding of the metallogeny in the region. Other than the preliminary report of gold in the exocontact zones of the intrusion (Seal *et al.* 1988) and noted gold in the Sb vein (Scratch *et al.* 1984), there are two reports on general geochemical analyses of gold at the deposit (Morrissy 1991a,b) and the study by Caron (1996), which had a regional emphasis.

SCOPE

This study follows up on the petrochemical study of gold distribution and alteration analysis around the Lake George Mine (Figure 1; Morrissy 1991a) using INAA multi-element analysis. Overall, 190 samples of archived crushed drill core (CX series, Morrissy 1991a) was used in this study. The drill holes and intervals sampled are reproduced in the appendix from the original report by Morrissy (1991a).

METHODOLOGY

The archived CX series crushed samples (Morrissy 1991a) were stored at the Lake George Mine. Due to the deterioration of the plastic bags, the crushed samples were repackaged before shipping for pulverization. Several of the sample bags were in too poor condition to repackage the samples so were not re-analysed. The original pulps could not be located. A portion of each crushed sample was pulverized in a chrome steel mill at the analytical laboratory. Instrumental Neutron Activation Analysis on 15 to 25 g samples were analyzed at Becquerel Laboratories Inc., Mississauga, Ontario. The new INAA data was then compared with existing Fire Assay data (Custom Labs) (Morrissy 1991a).

Three CANMET Antimony (Sb) Ore standards (CD-1), three CANMET Gold Ore (Au) standards (MA-2c) (Table 1), and six NB massive sulphide standards (94-MS-1) (Table 2; Lentz 1995) were submitted as blind internal standards. The very high amounts of Sb and As in the Antimony Ore standard (CD-1) precluded analysis for gold and silver by INAA, therefore is not considered in the following discussion of analytical precision and accuracy. For samples with high Sb, the background increases such that many multi-element INAA analyses, including gold, cannot be determined.

The analysis of the Au in the gold ore (MA-2c) is fairly accurate (3%), although the precision was low (see Table 1). Unfortunately, the Ag content was too low to analyze by INAA. As, Sb, Mo, and W were precise, although the accuracy was slightly off (Table 1), probably due to their low concentrations.

Table 1. CANMET MC-2c Gold Ore Standard compared to accepted value

	Sb	As	Ba	Cs	Cr	Eu	Au	Fe	La	Mo	Ni	Rb	Sm	Sc	Ag	Na	Th	W	U
MC-2c	3.6	7	2400	9	200	3	3.320	5.2	63	16	69	150	12.0	17.0	< 5	2.10	10.0	5	2.7
MC-2c	3.6	6	2300	9	180	3	2.750	5.1	62	11	67	140	12.0	17.0	< 5	2.10	10.0	5	2.9
MC-2c	4.4	6	2300	9	190	3	2.680	5.0	61	11	66	150	12.0	16.0	< 5	2.00	10.0	5	2.6
Accept	3.3	9	2200	9	216	3	3.020	5.4	62	14	64	147	12.0	17.5	1	2.20	9.2	6	2.7
Diff.%	17	-30	6	-1	-12	-5	-3	-6	1	-11	5	0	0	-5		-6	9	-17	1

NOTES: All analysis in ppm. Contents that were below INAA detection limits are not reported. Accepted value for MC-2c is from data sheets on the CANMET Certified Standards Reference Materials website. The Diff.% is the percentage difference between the average of the three MC-2c samples and the accepted value.

Table 2. NB Massive sulphide Ore standard (94-MS-1) compared to accepted value

	Sb	As	Ba	Cd	Co	Au	Fe	Ag	Sn	W
MS-1	463	852	380	200	9	0.306	33.9	150	1100	78
MS-1	429	830	<260	190	<5	0.314	31.9	151	1300	96
MS-1	437	856	310	170	11	0.297	32.5	143	910	93
MS-1	441	847	290	220	9	0.310	32.2	150	1000	93
MS-1	430	841	410	200	10	0.317	32.5	150	860	96
MS-1	431	875	<200	190	9	0.296	35.1	156	1300	74
Accept	360	650	350	164	8	0.230	28.0	140	532	93
Diff.%	22	31		19		33	18	7	103	-5

NOTES: All analysis in ppm. Contents that were below INAA detection limits are not reported. The Diff.% is the percentage difference between the average of the six 94-MS-1 standards and the accepted value (Lentz, 1995).

The analysis of the massive sulphide standard yielded poorer results overall, although this is not a certified reference standard. Also, the high amount of Pb, Zn, Fe, and S in this sample limit it's applicability to this study and are problematic in INAA analyses. Au and Ag is quite precise, although Au was less accurate and higher by 33%. Antimony and As

are precise, although less accurate giving higher results than expected. W analyses are fairly accurate, with low precision. Sn analyses are too high.

The INAA gold geochemical data obtained from Becquerel Laboratories Inc. were then compared with the Fire Assay gold analyses listed in from Morrissy (1991a). The remaining INAA geochemical data was examined to determine it's usefulness in future petrochemical analyses.

RESULTS AND DISCUSSION

The INAA analytical results are located in the Appendix; the results preceded by a negative (-) indicate concentrations less than the value noted (i.e. – 10 ppm = < 10 ppm). There are numerous data with below detection limit values; this is very common as high antimony elevates the background thus inhibiting detection of some elements, although gold is generally not affected. Generally, the INAA analyses yielded higher gold analyses that the previous Fire Assay Atomic Absorbtion methods (Custom Labs) reported in Morrissy (1991a) (Figure 2a and b). Figure 2 is plotted using normal values (a) and log values (b) to enhance the visual differences at the high and low abundance levels, respectively. Ignoring the samples in which gold was not previously detected, but yielded INAA gold analyses here, the INAA gave on average 29% higher results that reported by earlier the Fire Assay method. The high amounts of Sb and As in these samples may affect these gold geochemical results, although this analytical discrepency in gold is considered typical (Hoffman et al. 1998). Hoffman et al. (1998) considers this typical discrepency as due to problems in lead bead preparation and dissolution techniques, therefore the INAA should be superior.

The Sb contents are quite anomalous, but the As values are extremely high throughout most of the sample set. Arsenic correlates strongly with Au content; W has a much lower correlation (Table 3). The Mo analyses are plagued by high background levels due to anomalous Sb and As. The highest Mo and W are surprisingly low, 287 and 297 ppm respectively, with most analyses less than 100 ppm. There is an insignificant correlation of Au with Sb and Fe.

Table 3. Correlation Coeffiecients of Au versus Sb, As, W, and Fe

	Sb	As	W	Fe
Au	0.06	0.59	0.28	0.13

(n = 190)

Based on the above considerations, the INAA data are better than the earlier Fire Assay data, although there is a reasonable correlation between these two independently analyzed data sets, except for a few analyses (~ 1%). The gold analyses fall in the range typical for INAA analyses (Hoffman et al. 1998), although gold contents exceeding 1 ppm (1 g/t or 0.03 oz./ton) should routinely be Fire Assayed carefully.

RECOMMENDATIONS

Given the relatively low to moderate Sb contents and lower Mo and W in these samples, the geochemical association of the gold is somewhat problematic relative to the uncertainties in the paragenesis on the mineralization. Also, the original sampling (Morrissy 1991) was concentrated on grey-green alteration with sulphides, quartz, and carbonate veins. However, no petrochemical research was done to assess the original controls on mineralization nor on the genesis of the gold mineralization relative to other types of mineralization recognized at the deposit. Therefore a detailed analysis of these sample locations is required, as well as a complete geochemical analysis of these samples, then link this with the earlier observations of Caron (1996).

ACKNOWLEDGMENTS

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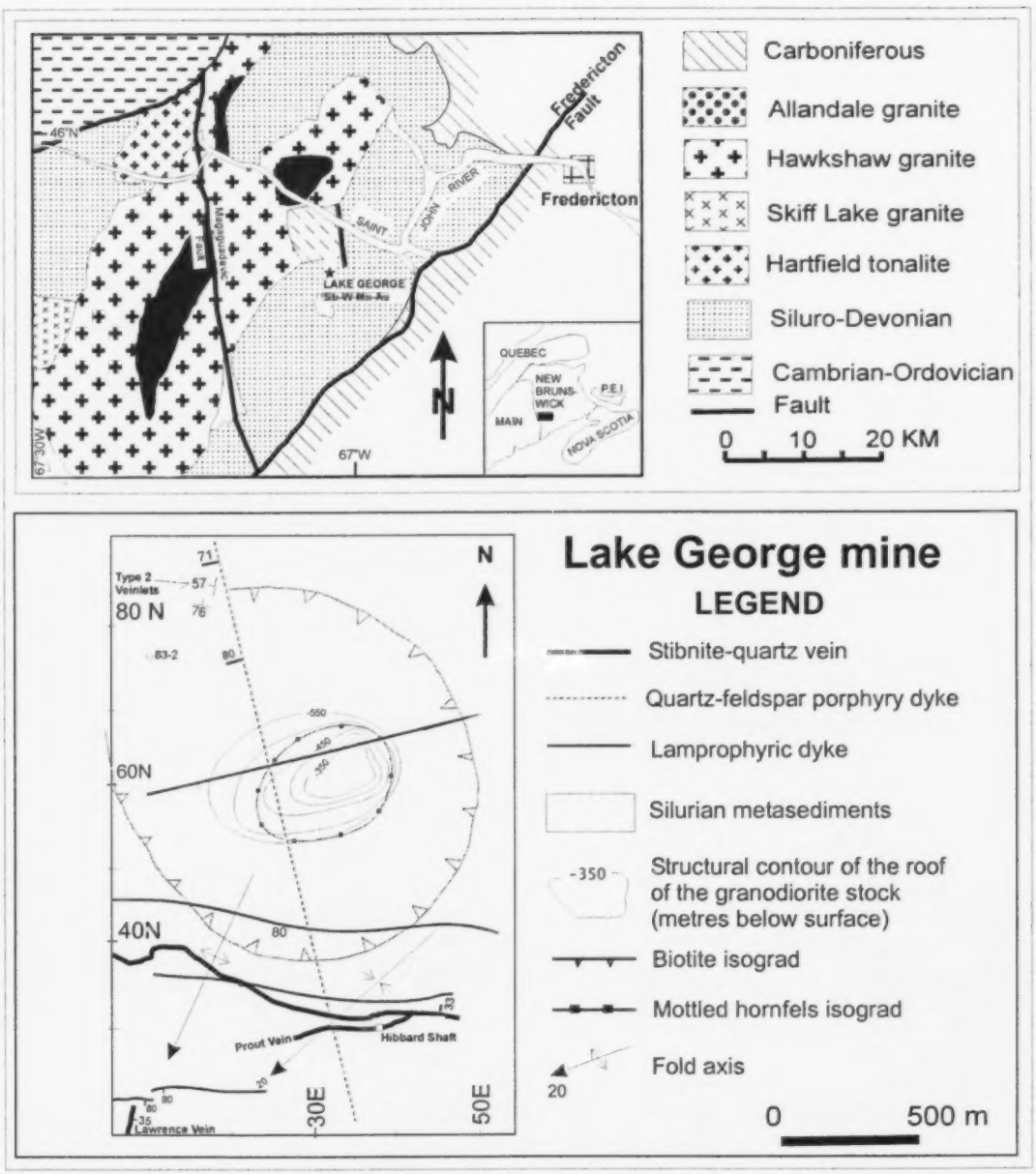

Figure 1. Location and general geology of the Lake George antimony mine, New Brunswick (modified after Seal *et al.* 1988.

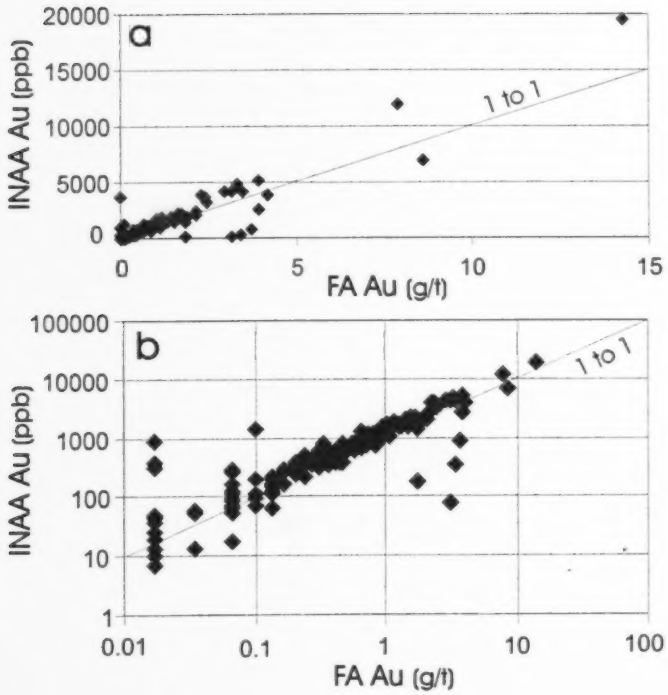

Figure 2. (a) Fire Assay Au (g/t) versus INAA Au (ppb), and (b) log Fire Assay Au (g/t) versus log INAA Au (ppb) for 189 samples from the Lake George mine area. One sample was not analyzed by fire assay.

Appendix 1. INAA Data:
Drill Core Samples from the Lake George Mine

Becquerel Laboratories Inc.
6790 Kitimat Rd,. Unit 4,
Mississauga, Ont. L5N 5L9

Client : NBDNRE, Minerals Division

Attention : Toon Pronk

NOTE : Samples difficult to analyze and have elevated detection limits due to very high Sb/As

		DDH	from	to	Au oz/T	Au g/t	Au ppb	Wt	Sb	As	Ba	Br	Cd	Ce	Cs	Cr	Co
								grams	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
CX	1	70-12	201.5	204.0	0.001	0.017	17	23.03	988	1720	410	-3.6	-24	66	3.9	180	17
CX	2	70-12	263.0	265.5	0.012	0.411	411	19.39	435	5470	160	-16.0	-22	66	6.6	270	12
CX	3	70-15	82.5	84.5	0.016	0.549	549	18.54	397	4340	300	-2.3	-18	79	7.7	460	10
CX	4	70-60	206.0	208.5	0.012	0.411	411	24.03	104	2670	260	-12.0	-10	72	7.2	470	10
CX	5	70-60	367.0	370.0	0.070	2.400	2400	21.17	1630	8150	550	-7.8	-62	77	11.0	250	11
CX	6	70-62	744.0	748.0	0.022	0.754	754	20.80	546	6070	-180	-5.4	-27	66	10.0	200	7
CX	7	70-65	491.0	494.0	0.004	0.137	137	24.12	1720	2820	-50	-7.2	-58	74	4.0	310	12
CX	8	70-67	106.5	108.5	0.004	0.137	137	20.81	70	374	220	2.3	-5	68	6.6	270	10
CX	9	70-67	229.0	231.0	0.012	0.411	411	15.99	84	7050	190	-33.0	-18	75	4.5	270	10
CX	11	70-68	249.0	251.0	0.017	0.583	583	22.31	99	1480	220	-5.5	-5	57	11.0	190	11
CX	12	70-68	401.0	405.0	0.009	0.309	309	26.22	267	2850	140	-12.0	-16	58	7.1	260	10
CX	13	70-72	844.5	848.0	0.011	0.377	377	21.67	242	2780	510	-8.3	-16	68	18.0	190	16
CX	14	70-72	953.0	955.0	0.004	0.137	137	25.60	1110	724	540	-4.3	-33	83	6.6	260	17
CX	15	65-15	50.0	55.0	0.042	1.440	1440	20.69	492	14700	-240	-39.0	-37	49	5.9	240	11
CX	16	70-36	220.0	223.0	0.044	1.509	1509	26.41	971	11300	570	-6.1	-46	64	11.0	250	6
CX	17	70-37	227.5	231.0	0.002	0.069	69	22.70	672	6190	280	-7.0	-31	80	4.6	160	15
CX	18	70-39	125.0	128.0	0.013	0.446	446	19.27	3440	4810	-750	-15.0	-120	53	7.4	130	6
CX	19	70-39	150.0	152.0	0.011	0.377	377	24.74	1220	11100	-350	-7.0	-53	74	8.7	230	16
CX	20	70-50	60.0	62.5	0.007	0.240	240	17.50	163	2600	360	-6.9	-11	82	18.0	180	21
CX	21	70-51	309.0	312.0	0.008	0.274	274	21.58	525	3520	200	-2.8	-22	46	8.4	200	7
CX	22	70-53	331.0	333.0	0.042	1.440	1440	20.36	3860	7040	-790	-16.0	-120	51	14.0	-100	17
CX	23	70-53	184.0	186.0	0.012	0.411	411	20.16	706	3040	-170	-3.5	-27	63	6.4	310	5
CX	24	70-54	53.0	55.0	0.006	0.206	206	21.67	71	2480	180	-9.7	-5	61	7.8	270	10
CX	25	70-54	519.0	523.0	0.015	0.514	514	21.32	93	9500	250	39.0	-21	46	7.0	260	9
CX	26	70-55	89.0	91.0	0.016	0.549	549	20.74	231	3950	380	-7.7	-14	67	17.0	210	15
CX	27	70-56	190.0	192.2	0.013	0.446	446	14.23	129	2490	120	-7.4	-5	47	12.0	240	11
CX	28	70-58	66.0	68.0	0.019	0.651	651	16.04	2740	2260	1100	-11.0	-84	71	19.0	100	15
CX	29	70-58	436.0	438.0	0.004	0.137	137	18.98	1320	2300	530	-6.0	-46	81	13.0	260	12
CX	30	75-1	315.0	318.0	0.035	1.200	1200	18.46	212	7550	430	-22.0	-19	74	13.0	200	16
CX	31	75-1	321.0	326.0	0.062	2.126	2126	21.61	191	10700	-160	-42.0	-25	68	8.0	240	12
CX	32	75-3	321.0	322.5	0.030	1.029	1029	17.60	507	4810	560	-3.0	-22	81	5.3	200	13
CX	33	75-4	626.0	627.5	0.001	0.017	17	20.87	264	431	250	-1.2	-5	98	3.6	250	15
CX	34	75-6	74.5	77.0	0.010	0.343	343	23.62	316	5700	340	-11.0	-20	83	3.1	140	23
CX	35	75-5	261.0	263.0	0.006	0.206	206	20.92	1030	5090	490	-5.4	-42	82	8.0	170	14
CX	36	75-9	601.5	606.5	0.013	0.446	446	18.63	325	8660	250	-25.0	-23	72	10.0	180	14
CX	37	75-14	116.0	118.0	0.030	1.029	1029	20.75	3980	10500	-830	-18.0	-130	51	11.0	180	10
CX	38	75-14	217.0	220.0	0.016	0.549	549	17.84	342	1440	260	-2.8	-16	69	11.0	260	8
CX	39	75-14	263.5	265.0	0.008	0.274	274	19.26	198	4230	190	15.0	-15	68	7.0	220	8
CX	40	75-16	606.7	607.0	0.012	0.411	411	17.83	1180	4670	-250	-5.5	-41	55	5.4	330	8
CX	41	75-16	640.0	642.5	0.002	0.069	69	25.18	222	1870	240	-5.4	-13	98	8.9	290	10
CX	42	75-17	100.0	105.0	0.035	1.200	1200	23.43	290	14000	380	-46.0	-32	120	12.0	200	21
CX	43	75-23	32.8	35.0	0.038	1.303	1303	24.43	82	7730	180	-31.0	-16	76	8.1	340	14
CX	44	75-23	85.0	86.5	0.002	0.069	69	24.61	144	5940	410	-25.0	-16	70	6.9	210	11
CX	45	75-23	355.0	358.0	0.011	0.377	377	25.97	62	973	140	3.9	-5	63	12.0	240	11
CX	46	75-24	447.0	449.0	0.006	0.206	206	21.01	136	7900	360	-23.0	-15	84	8.0	180	16
CX	47	75-24	649.0	654.0	0.017	0.583	583	24.74	504	4940	240	-7.1	-26	60	11.0	270	11
CX	48	75-7	93.0	98.0	0.038	1.303	1303	25.46	355	21900	-260	-69.6	-44	72	7.5	200	18
CX	49	80-23	1238.6	1239.5	0.002	0.069	69	23.65	126	818	240	-0.5	-5	130	26.0	290	21
CX	50	80-23	1300.0	1303.0	0.002	0.069	69	19.72	110	4590	200	-18.0	-14	76	11.0	290	8
CX	51	80-23	1352.7	1354.7	0.003	0.103	103	26.00	5010	3170	-1000	-23.0	-170	65	12.0	180	13
CX	52	80-24	701.0	703.0	0.002	0.069	69	23.83	100	783	180	-0.5	-5	68	23.0	330	9
CX	53	80-25	438.0	440.0	0.001	0.017	17	18.38	420	4940	220	-2.8	-20	79	10.0	250	14
CX	54	80-25	517.0	519.0	0.001	0.034	34	22.89	513	2640	150	-2.6	-19	55	4.2	260	14
CX	55	80-25	1315.0	1320.0	0.001	0.034	34	23.53	297	480	320	-1.8	-14	63	16.0	250	11
CX	56	80-25	1353.5	1355.0	0.001	0.017	17	26.37	138	3640	230	-5.0	-5	62	8.9	330	9
CX	57	80-26	48.0	51.5	0.040	1.371	1371	20.11	267	13400	400	-41.0	-26	80	10.0	200	13

Becquerel Laboratories Inc.
6790 Kitimat Rd,. Unit 4,
Mississauga, Ont. L5N 5L9

Client : NBDNRE, Min

Attention : Toon Pronk
NOTE : Samples difficult to analyz

		DDH	from	to	Eu ppm	Au ppb	Hf ppm	Ir ppb	Fe %	La ppm	Lu ppm	Mo ppm	Ni ppm	Rb ppm	Sm ppm	Sc ppm	Se ppm	Ag ppm
CX	1	70-12	201.5	204.0	-3	26	4	-92	4.7	33	-1.1	-11	65	73	7.3	11.0	-5	-2
CX	2	70-12	263.0	265.5	-1	367	10	-50	3.2	35	-1.4	-5	52	100	6.9	10.0	-5	-2
CX	3	70-15	82.5	84.5	-1	678	15	-50	2.6	38	-1.0	-5	70	100	7.8	9.1	-4	-2
CX	4	70-60	206.0	208.5	2	489	12	-50	2.6	33	0.6	-2	54	100	6.5	8.5	-5	-2
CX	5	70-60	367.0	370.0	-3	3770	3	-74	2.7	42	-1.9	-14	75	150	7.9	10.0	-5	-2
CX	6	70-62	744.0	748.0	-1	913	5	-52	2.5	28	-1.0	-6	31	110	6.1	7.9	-5	-2
CX	7	70-65	491.0	494.0	-3	150	6	-64	2.1	39	-1.7	-13	34	85	6.9	8.8	-5	-2
CX	8	70-67	106.5	108.5	1	160	8	-50	2.7	31	0.5	-1	36	87	5.1	10.0	-5	-2
CX	9	70-67	229.0	231.0	-1	530	9	-50	2.7	34	0.6	-4	34	110	6.8	10.0	-5	-2
CX	11	70-68	249.0	251.0	-1	673	5	-50	2.8	26	0.6	-1	47	150	4.5	10.0	-5	-2
CX	12	70-68	401.0	405.0	-1	320	6	-50	2.3	28	0.6	-3	47	120	5.2	7.6	-5	-2
CX	13	70-72	844.5	848.0	-1	366	5	-50	3.9	32	0.8	-5	60	190	6.9	14.0	-5	-2
CX	14	70-72	953.0	955.0	-3	65	9	-130	3.6	35	-1.5	-7	42	110	7.6	12.0	-5	-2
CX	15	65-15	50.0	55.0	-1	1980	4	-50	2.5	25	-1.2	-11	37	120	5.3	6.8	-5	-2
CX	16	70-36	220.0	223.0	-3	1480	8	-92	3.4	29	-1.4	-10	43	130	6.1	9.0	-5	-2
CX	17	70-37	227.5	231.0	-2	130	4	-50	3.9	47	-0.9	-7	62	120	8.0	18.0	-5	-2
CX	18	70-39	125.0	128.0	-6	689	6	-210	2.9	42	-3.4	-27	38	110	5.4	11.0	-11	-5
CX	19	70-39	150.0	152.0	-3	521	4	-68	3.5	36	-1.5	-12	48	170	7.1	14.0	-5	-2
CX	20	70-50	60.0	62.5	2	450	4	-50	4.7	38	0.3	-2	77	230	6.2	18.0	-5	-2
CX	21	70-51	309.0	312.0	-3	344	6	-50	3.4	28	0.7	-6	40	130	5.9	11.0	-8	-2
CX	22	70-53	331.0	333.0	-8	1770	-4	-250	2.9	42	-5.4	-28	100	190	7.7	13.0	-15	-6
CX	23	70-53	184.0	186.0	-4	540	5	-50	1.6	23	-0.8	-6	49	120	5.4	7.8	-5	-6
CX	24	70-54	53.0	55.0	2	375	8	-50	2.5	27	0.4	-1	45	92	5.4	8.0	-5	-2
CX	25	70-54	519.0	523.0	-1	644	6	-50	2.2	23	-0.6	-5	54	100	5.1	7.0	-5	-2
CX	26	70-55	89.0	91.0	-1	765	4	-50	3.9	37	0.5	-8	77	210	7.0	15.0	-5	-2
CX	27	70-56	190.0	192.2	-1	513	3	-50	2.7	23	0.4	-1	78	150	4.5	9.1	-5	-2
CX	28	70-58	66.0	68.0	-6	795	-3	-160	4.0	40	-3.9	-19	79	180	8.1	16.0	-10	-5
CX	29	70-58	436.0	438.0	-4	110	4	-92	3.0	40	-1.3	-14	70	150	7.4	14.0	-5	-2
CX	30	75-1	315.0	318.0	2	1360	5	-50	3.2	37	0.7	-5	52	190	6.7	12.0	-5	-2
CX	31	75-1	321.0	326.0	2	2400	7	-50	3.5	32	-0.7	-6	39	160	6.4	11.0	-5	-2
CX	32	75-3	321.0	322.5	-2	1320	4	-50	2.9	39	0.8	-5	30	160	7.0	15.0	-8	-2
CX	33	75-4	626.0	627.5	3	36	10	-50	0.6	40	0.6	-3	51	76	6.8	10.0	-5	-2
CX	34	75-6	74.5	77.0	-3	424	6	-50	4.0	35	-1.0	-5	82	96	6.6	14.0	-5	-2
CX	35	75-5	261.0	263.0	-4	248	3	-56	3.6	31	-2.0	-9	65	140	6.7	11.0	-5	-2
CX	36	75-9	601.5	606.5	-2	510	7	-50	2.1	33	0.9	-7	63	180	7.2	7.7	-5	-2
CX	37	75-14	116.0	118.0	-8	1730	-4	-210	4.4	35	-3.9	-30	65	230	7.3	13.0	-14	-6
CX	38	75-14	217.0	220.0	-1	690	8	-50	2.3	33	0.7	-5	49	140	6.1	9.3	-4	-2
CX	39	75-14	263.5	265.0	-3	420	7	-50	2.3	34	-0.2	-3	38	100	6.2	7.9	-5	-2
CX	40	75-16	606.7	607.0	-4	525	7	-76	3.1	31	-1.1	-9	42	65	6.4	8.2	-5	-2
CX	41	75-16	640.0	642.5	2	93	8	-50	2.3	46	0.5	-13	40	99	7.5	10.0	-5	-2
CX	42	75-17	100.0	105.0	-1	1670	4	-50	4.5	54	-1.0	-10	110	200	8.7	16.0	-5	-2
CX	43	75-23	32.8	35.0	3	1540	7	-50	2.7	33	0.7	-4	76	130	5.7	10.0	-5	-2
CX	44	75-23	85.0	86.5	1	110	6	-50	2.8	34	0.6	-3	43	110	6.2	11.0	-5	-2
CX	45	75-23	355.0	358.0	1	460	5	-50	2.7	31	0.5	-1	36	150	5.3	10.0	-5	-2
CX	46	75-24	447.0	449.0	-1	276	4	-50	4.9	32	0.8	-4	86	160	6.4	16.0	-5	-2
CX	47	75-24	649.0	654.0	-3	736	8	-50	2.8	30	-0.8	-6	38	150	7.2	9.0	-5	-2
CX	48	75-7	93.0	98.0	-1	1690	6	-50	3.4	34	-1.2	-13	50	180	7.6	8.9	-5	-2
CX	49	80-23	1238.6	1239.5	2	83	6	-50	2.8	66	0.3	30	130	220	7.6	13.0	-5	-2
CX	50	80-23	1300.0	1303.0	2	66	7	-50	2.6	37	0.5	-11	29	150	6.5	10.0	-5	-2
CX	51	80-23	1352.7	1354.7	-9	190	-4	-330	3.8	46	-4.8	174	57	160	7.6	15.0	-16	-9
CX	52	80-24	701.0	703.0	1	71	6	-50	2.7	30	0.5	125	47	170	5.0	11.0	-5	-2
CX	53	80-25	438.0	440.0	-2	901	4	-50	2.9	37	-1.5	-9	60	150	7.6	12.0	-5	-2
CX	54	80-25	517.0	519.0	-3	59	4	-50	1.0	23	0.7	-22	80	30	4.3	4.9	-5	-2
CX	55	80-25	1315.0	1320.0	-1	56	8	-50	2.8	34	-1.0	-6	40	140	6.5	11.0	-5	-2
CX	56	80-25	1353.5	1355.0	-1	50	4	-50	2.2	31	0.5	-4	43	150	5.3	11.0	-5	-2
CX	57	80-26	48.0	51.5	2	1810	7	-50	3.3	38	0.7	-5	52	150	6.7	11.0	-5	-2

Becquerel Laboratories Inc.
6790 Kitimat Rd,. Unit 4,
Mississauga, Ont. L5N 5L9

Report: T01-00145.0
23-Jan-03

Client : NBDNRE, Min

Attention : Toon Pronk
NOTE : Samples difficult to analyz

		DDH	from	to	Na	Ta	Te	Tb	Th	Sn	W	U	Yb	Zn	Zr	Au Diff.
					%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
CX	1	70-12	201.5	204.0	1.30	1.1	-43	0.9	9.0	-100	26	1.5	-27	-100	-200	-52
CX	2	70-12	263.0	265.5	0.22	0.8	-55	0.9	8.8	-100	33	2.2	-17	-100	510	11
CX	3	70-15	82.5	84.5	-0.18	0.8	-44	1.1	10.0	-100	35	2.3	-16	-100	590	-24
CX	4	70-60	206.0	208.5	0.24	0.8	-24	1.0	9.0	-100	19	2.2	-7	-100	460	-19
CX	5	70-60	367.0	370.0	-0.62	0.7	-160	0.9	10.0	-230	21	-3.3	-31	-100	340	-57
CX	6	70-62	744.0	748.0	-0.24	0.9	-65	0.8	6.2	-100	45	-1.4	-18	-100	-200	-21
CX	7	70-65	491.0	494.0	-0.72	1.0	-140	1.0	7.5	-230	25	6.8	-32	-100	-200	-9
CX	8	70-67	106.5	108.5	0.80	0.8	-10	0.9	8.2	-100	18	2.3	4	-100	390	-17
CX	9	70-67	229.0	231.0	-0.09	0.9	-41	0.9	7.9	-100	19	2.8	-9	-100	330	-29
CX	11	70-68	249.0	251.0	-0.07	0.8	-10	0.8	7.5	-100	33	2.2	-4	-100	-200	-15
CX	12	70-68	401.0	405.0	-0.16	0.7	-41	0.8	7.8	-100	29	2.1	-17	-100	310	-4
CX	13	70-72	844.5	848.0	-0.15	1.1	-40	1.0	11.0	-100	50	3.3	-17	-100	250	3
CX	14	70-72	953.0	955.0	1.00	1.1	-79	1.1	10.0	-200	22	-1.7	-28	-100	330	53
CX	15	65-15	50.0	55.0	-0.26	0.8	-88	0.8	6.4	-100	21	2.9	-19	-100	-200	-38
CX	16	70-36	220.0	223.0	-0.45	0.6	-110	0.8	7.4	-100	41	-2.4	-25	-100	250	2
CX	17	70-37	227.5	231.0	-0.33	1.2	-74	1.1	11.0	-100	29	4.4	-22	-100	-200	-90
CX	18	70-39	125.0	128.0	-1.50	-0.5	-280	1.1	7.6	-400	43	7.7	-56	-100	-510	-55
CX	19	70-39	150.0	152.0	-0.61	0.7	-130	0.7	10.0	-220	32	-2.8	-30	-100	370	-38
CX	20	70-50	60.0	62.5	0.25	0.9	-23	1.2	12.0	-100	16	2.9	-8	-100	530	-88
CX	21	70-51	309.0	312.0	-0.27	0.8	-51	0.9	8.7	-100	26	2.1	-25	-100	360	-25
CX	22	70-53	331.0	333.0	-1.90	-0.5	-310	0.7	8.0	-550	45	83.3	-81	-100	-710	-23
CX	23	70-53	184.0	186.0	-0.39	-0.5	-69	0.6	7.2	-280	30	7.3	-36	-100	-200	-31
CX	24	70-54	53.0	55.0	0.66	0.9	-10	0.8	8.7	-100	18	2.7	-4	-100	380	-82
CX	25	70-54	519.0	523.0	-0.12	0.8	-51	0.7	6.4	-100	36	1.7	-14	-100	290	-25
CX	26	70-55	89.0	91.0	0.16	1.1	-32	1.0	11.0	-100	41	2.8	-14	-100	240	-39
CX	27	70-56	190.0	192.2	-0.09	0.7	-10	0.8	6.6	-100	27	1.4	-6	-100	-200	-15
CX	28	70-58	66.0	68.0	-1.40	1.3	-200	0.6	10.0	-380	64	-4.5	-54	-100	-500	-22
CX	29	70-58	436.0	438.0	-0.70	-0.5	-110	1.0	10.0	-240	-10	2.4	-35	150	360	20
CX	30	75-1	315.0	318.0	-0.16	0.9	-41	1.0	10.0	-100	27	10.0	-15	-100	-200	-13
CX	31	75-1	321.0	326.0	-0.17	1.0	-58	0.9	8.5	-100	35	5.9	-14	-100	320	-13
CX	32	75-3	321.0	322.5	-0.31	0.9	-50	0.8	10.0	-100	25	10.0	-23	-100	-200	-28
CX	33	75-4	626.0	627.5	-0.15	1.1	-10	1.0	11.0	-100	39	7.3	-17	-100	520	-110
CX	34	75-6	74.5	77.0	-0.22	0.9	-44	1.2	10.0	-100	22	12.0	-20	140	-200	-24
CX	35	75-5	261.0	263.0	1.20	0.8	-100	1.0	9.2	-250	-12	-2.1	-40	-100	-200	-21
CX	36	75-9	601.5	606.5	-0.27	0.9	-57	1.0	10.0	-100	19	6.5	-22	-100	290	-14
CX	37	75-14	116.0	118.0	-2.30	-0.5	-320	0.9	10.0	-630	46	-7.1	-77	-100	750	-68
CX	38	75-14	217.0	220.0	-0.24	1.0	-35	0.9	8.4	-100	55	9.0	-20	-100	-200	-26
CX	39	75-14	263.5	265.0	-0.18	0.7	-34	0.7	6.2	-100	15	2.5	-15	-100	220	-53
CX	40	75-16	606.7	607.0	-0.68	0.8	-92	0.8	8.3	-300	30	-2.0	-35	-100	-200	-28
CX	41	75-16	640.0	642.5	-0.17	0.9	-28	1.2	8.4	-100	20	3.0	-15	-100	400	-36
CX	42	75-17	100.0	105.0	-0.27	1.0	-71	1.0	16.0	-100	36	8.0	-18	-100	320	-39
CX	43	75-23	32.8	35.0	-0.11	0.7	-35	0.8	8.8	-100	29	1.4	-11	-100	250	-18
CX	44	75-23	85.0	86.5	1.40	0.8	-34	0.9	8.6	-100	6	1.2	-9	-100	210	-60
CX	45	75-23	355.0	358.0	0.15	0.7	-10	0.9	8.0	-100	48	2.3	-4	-100	-200	-22
CX	46	75-24	447.0	449.0	0.39	0.8	-34	0.9	10.0	-100	11	1.3	-13	-100	-200	-34
CX	47	75-24	649.0	654.0	-0.38	0.9	-63	1.0	9.2	-100	38	1.5	-24	-100	400	-26
CX	48	75-7	93.0	98.0	-0.36	0.9	-100	1.0	10.0	-100	17	10.0	-18	-100	210	-30
CX	49	80-23	1238.6	1239.5	0.18	1.1	-10	1.2	13.0	-100	84	3.6	-5	-100	210	-21
CX	50	80-23	1300.0	1303.0	0.77	1.0	-28	1.0	10.0	-100	77	4.1	-8	-100	240	4
CX	51	80-23	1352.7	1354.7	-3.10	1.9	-400	1.3	9.0	-590	-39	-9.3	-87	-100	-770	-85
CX	52	80-24	701.0	703.0	0.41	0.9	-10	0.8	8.7	-100	21	2.4	-5	-100	280	-4
CX	53	80-25	438.0	440.0	-0.32	0.6	-43	1.1	10.0	-100	297	7.9	-21	-100	220	-5156
CX	54	80-25	517.0	519.0	-0.36	0.6	-41	-0.5	7.3	-100	88	5.7	-22	-100	-200	-72
CX	55	80-25	1315.0	1320.0	-0.23	1.0	-28	1.0	8.5	-100	63	1.8	-18	-100	210	-63
CX	56	80-25	1353.5	1355.0	-0.13	1.0	-10	0.9	9.2	-100	46	2.8	-7	-100	-200	-192
CX	57	80-26	48.0	51.5	0.75	0.9	-58	1.0	10.0	-100	26	2.3	-20	-100	290	-32

Becquerel Laboratories Inc.
6790 Kitimat Rd,. Unit 4,
Mississauga, Ont. L5N 5L9

Client : NBDNRE, Minerals Division

Attention : Toon Pronk
NOTE : Samples difficult to analyze and have elevated detection limits due to very high Sb/As

		DDH	from	to	Au oz/T	Au g/t	Au ppb	Wt	Sb	As	Ba	Br	Cd	Ce	Cs	Cr	Co
								grams	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
CX	58	80-26	1217.0	1218.5	0.100	3.429	3429	19.59	215	8940	220	-29.0	-23	61	11.0	240	11
CX	59	75-28	368.5	370.0	0.092	3.154	3154	21.26	106	5680	330	-20.0	-15	62	10.0	140	10
CX	60	75-28	751.5	753.0	0.003	0.103	103	17.07	186	3330	120	-5.0	-10	53	3.3	260	11
CX	61	75-28	850.0	852.0	0.002	0.069	69	15.22	333	11900	450	-25.0	-26	100	7.2	280	29
CX	62	70-29	113.0	114.5	0.002	0.069	69	17.93	122	7270	540	-26.0	-16	71	10.0	190	13
CX	63	70-30	73.7	75.7	0.108	3.703	3703	15.56	100	3360	380	-11.0	-5	66	11.0	140	16
CX	64	74-11	108.0	109.5	0.115	3.943	3943	18.12	219	10500	510	-28.0	-21	77	16.0	170	21
CX	65	74-16	69.7	72.7	0.028	0.960	960	28.61	110	5410	200	-17.0	-13	65	3.3	210	9
CX	66	74-23	440.0	445.0	0.012	0.411	411	19.51	92	9220	200	-33.0	-18	71	7.2	170	12
CX	67	74-25	151.3	152.8	0.001	0.017	17	26.83	52	2690	180	-10.0	-5	68	10.0	190	10
CX	68	74-35	595.0	597.0	0.004	0.137	137	19.46	36	671	150	2.9	-5	67	13.0	270	9
CX	69	74-10	345.0	346.0	0.013	0.446	446	16.19	115	5790	300	-18.0	-13	51	10.0	200	9
CX	70	74-20	15.0	17.0	0.004	0.137	137	18.04	100	1720	150	-5.6	-5	62	16.0	200	10
CX	71	74-21	207.0	208.3	0.015	0.514	514	16.69	193	6870	470	-23.0	-18	64	8.3	190	16
CX	72	74-22	67.0	68.0	0.008	0.274	274	22.12	42	2750	250	-8.8	-5	68	10.0	220	10
CX	73	74-22	428.0	429.0	0.008	0.274	274	16.37	94	16600	540	-60.4	-30	79	7.0	150	17
CX	74	74-26	447.0	448.0	0.020	0.686	686	20.48	1330	5270	-290	-7.1	-50	60	13.0	300	10
CX	75	74-37	93.5	95.0	0.006	0.206	206	18.52	85	2530	320	-7.3	-5	83	6.3	300	12
CX	76	74-39	163.5	164.5	0.009	0.309	309	19.47	530	4840	210	-8.8	-27	61	5.3	230	9
CX	77	74-39	198.0	199.0	0.010	0.343	343	17.62	66	4420	490	-14.0	-5	76	15.0	160	18
CX	78	74-45	36.2	37.2		0.000	0	16.41	135	24900	240	-85.5	-40	70	14.0	220	20
CX	79	74-45	190.5	191.2	0.006	0.206	206	19.76	52	2860	200	-11.0	-5	63	6.3	270	11
CX	80	74-44	81.3	82.8	0.055	1.886	1886	21.79	199	5730	1100	-20.0	-17	82	8.0	200	13
CX	81	74-44	386.2	387.2	0.023	0.789	789	19.92	735	14800	-250	-33.0	-44	51	2.9	310	9
CX	82	74-46	490.0	495.0	0.041	1.406	1406	22.38	1750	17400	-410	-11.0	-74	41	4.5	240	14
CX	83	79-4	42.8	44.3	0.034	1.166	1166	21.52	96	9070	310	-33.0	-19	77	10.0	200	15
CX	84	79-5	872.2	873.2	0.011	0.377	377	22.54	271	8240	250	-19.0	-20	73	8.8	350	9
CX	85	79-6	398.5	400.0	0.025	0.857	857	15.05	93	5010	190	-18.0	-11	72	12.0	250	13
CX	86	79-6	512.7	513.7	0.009	0.309	309	18.69	67	1950	190	-5.2	-5	65	20.0	180	15
CX	87	79-9	1103.0	1104.0	0.012	0.411	411	16.67	93	11200	230	-42.0	-22	67	6.8	240	9
CX	88	78-32	980.6	981.4	0.032	1.097	1097	18.32	364	15600	330	-32.0	-30	74	12.0	280	19
CX	89	78-39	985.8	988.8	0.001	0.017	17	25.03	75	819	140	3.6	-5	78	3.0	190	14
CX	90	78-39	1045.0	1055.0	0.018	0.617	617	25.98	164	9620	240	-35.0	-21	60	8.4	260	11
CX	91	78-31	958.5	960.0	0.007	0.240	240	19.40	78	6230	330	-23.0	-13	75	8.4	210	9
CX	92	78-36	235.0	240.0	0.062	2.126	2126	17.35	78	11500	220	-41.0	-18	56	7.2	190	9
CX	93	78-38	150.0	160.0	0.001	0.017	17	17.98	75	95	53	-0.5	-5	59	2.7	190	8
CX	94	78-38	167.0	170.0	0.086	2.949	2949	16.90	122	23200	910	-19.0	-74	83	9.2	210	14
CX	95	78-38	502.8	503.8	0.014	0.480	480	20.72	611	15700	-640	-15.0	-63	68	13.0	220	13
CX	96	78-39	203.6	206.6	0.012	0.411	411	17.24	97	4370	450	-3.8	-16	72	11.0	150	16
CX	97	78-40	497.6	498.6	0.004	0.137	137	21.83	997	6980	-520	-9.7	-51	60	3.3	210	13
CX	98	78-41	780.0	781.7	0.026	0.891	891	21.92	460	12200	880	-12.0	-52	86	12.0	160	23
CX	99	78-43	882.6	883.6	0.006	0.206	206	19.32	65	10500	-330	-8.5	-34	100	10.0	170	14
CX	100	78-43	967.5	968.5	0.002	0.069	69	19.69	191	5080	-220	-5.4	-22	69	5.8	190	10
CX	101	79-2	65.0	66.9	0.001	0.017	17	32.73	35	454	190	0.5	-5	66	3.5	160	13
CX	102	79-3	272.0	276.0	0.001	0.034	34	19.61	924	1210	-320	-5.1	-32	50	10.0	160	23
CX	103	79-3	706.7	707.7	0.019	0.651	651	19.49	472	5570	-320	-5.6	-33	48	13.0	160	14
CX	104	75-49	293.5	295.0	0.014	0.480	480	16.69	961	1480	-350	-5.6	-35	57	15.0	180	11
CX	105	75-70	62.5	63.5	0.009	0.309	309	16.72	108	9890	660	-8.0	-32	59	6.6	180	11
CX	106	75-71	38.0	39.2	0.025	0.857	857	20.83	132	14600	600	-11.0	-46	55	7.6	160	13
CX	107	75-72	172.9	173.4	0.024	0.823	823	17.65	132	14700	-440	-12.0	-45	87	7.6	190	14
CX	108	75-73	121.5	122.5	0.039	1.337	1337	14.74	201	19900	-630	-18.0	-64	71	9.3	220	15
CX	109	75-78	159.0	160.0	0.010	0.343	343	15.24	208	9960	500	-8.5	-36	83	11.0	150	15
CX	110	75-87	248.0	249.0	0.002	0.069	69	14.13	81	329	350	0.5	-5	70	12.0	180	15
CX	111	75-91	141.5	143.5	0.012	0.411	411	19.20	558	10200	-440	-10.0	-45	49	3.2	190	17
CX	112	75-91	330.0	332.0	0.013	0.446	446	15.52	165	15600	-440	-12.0	-47	69	7.0	180	16
CX	113	74-7	137.5	138.5	0.003	0.103	103	15.86	55	4060	220	-3.5	-16	87	10.0	200	16

Becquerel Laboratories Inc.
6790 Kitimat Rd,. Unit 4,
Mississauga, Ont. L5N 5L9

Client : NBDNRE, Min

Attention : Toon Pronk
NOTE : Samples difficult to analyz

		DDH	from	to	Eu ppm	Au ppb	Hf ppm	Ir ppb	Fe %	La ppm	Lu ppm	Mo ppm	Ni ppm	Rb ppm	Sm ppm	Sc ppm	Se ppm	Ag ppm
CX	58	80-26	1217.0	1218.5	2	345	7	-50	3.5	28	0.8	-7	32	170	6.1	11.0	-5	-2
CX	59	75-28	368.5	370.0	2	82	3	-50	3.1	29	-0.4	-3	47	130	6.2	8.9	-5	-2
CX	60	75-28	751.5	753.0	-1	73	7	-50	3.2	27	0.6	-5	32	42	5.2	10.0	-5	-2
CX	61	75-28	850.0	852.0	-1	300	5	-50	3.5	49	0.8	-16	130	180	8.6	17.0	-5	-2
CX	62	70-29	113.0	114.5	3	170	6	-50	3.5	35	0.5	-3	55	150	6.6	12.0	-5	-2
CX	63	70-30	73.7	75.7	2	875	4	-50	3.4	32	0.7	-1	59	170	5.7	14.0	-5	-2
CX	64	74-11	108.0	109.5	-1	2600	4	-50	4.7	36	-0.5	-4	110	230	6.6	18.0	-5	-2
CX	65	74-16	69.7	72.7	2	1270	8	-50	2.4	28	0.6	-3	36	54	5.4	8.3	-5	-2
CX	66	74-23	440.0	445.0	2	601	8	-50	2.8	31	-0.4	-5	41	140	6.8	10.0	-5	-2
CX	67	74-25	151.3	152.8	2	311	8	-50	2.8	31	0.5	-1	48	120	5.5	10.0	-5	-2
CX	68	74-35	595.0	597.0	2	120	6	-50	2.6	32	0.3	3	28	120	5.0	8.3	-5	-2
CX	69	74-10	345.0	346.0	-3	439	4	-50	3.1	22	0.6	-2	39	120	4.1	9.0	-5	-2
CX	70	74-20	15.0	17.0	-1	218	8	-50	3.0	29	0.4	-2	49	190	6.0	10.0	-5	-2
CX	71	74-21	207.0	208.3	3	650	5	-50	3.7	25	-0.5	-5	50	110	6.1	11.0	-5	-2
CX	72	74-22	67.0	68.0	1	409	7	-50	2.5	31	0.5	-1	40	120	5.6	9.3	-5	-2
CX	73	74-22	428.0	429.0	2	430	5	-50	3.7	38	-1.1	-9	75	220	7.7	15.0	-5	-2
CX	74	74-26	447.0	448.0	-4	899	5	-70	2.5	32	-1.3	-11	30	140	6.6	7.3	-5	-2
CX	75	74-37	93.5	95.0	-1	268	13	-50	3.2	38	0.6	-1	42	75	6.6	11.0	-5	-2
CX	76	74-39	163.5	164.5	-2	501	5	-73	2.4	29	-1.0	-6	33	84	6.3	8.3	-5	-2
CX	77	74-39	198.0	199.0	1	770	5	-50	4.0	35	0.5	-3	75	210	6.5	16.0	-5	-2
CX	78	74-45	36.2	37.2	2	3740	5	-50	4.6	36	-1.8	-16	110	220	8.1	13.0	-5	-2
CX	79	74-45	190.5	191.2	2	281	10	-50	2.8	29	0.4	-1	40	87	5.2	8.8	-5	-2
CX	80	74-44	81.3	82.8	-1	1910	7	-50	2.9	38	-0.4	-4	45	150	6.9	11.0	-5	-2
CX	81	74-44	386.2	387.2	-3	901	6	-86	1.6	16	-1.2	-13	30	74	4.1	5.0	-5	-5
CX	82	74-46	490.0	495.0	-5	1710	3	-90	1.8	16	-2.1	-22	25	97	4.3	4.9	-5	-2
CX	83	79-4	42.8	44.3	2	1920	7	-50	3.4	36	0.8	-5	63	200	7.1	12.0	-5	-2
CX	84	79-5	872.2	873.2	-1	475	10	-50	2.6	31	0.7	-4	34	130	6.7	7.5	-5	-2
CX	85	79-6	398.5	400.0	2	948	5	-50	2.5	31	0.6	-2	42	160	5.8	10.0	-5	-2
CX	86	79-6	512.7	513.7	1	370	5	-50	3.1	30	0.4	-4	50	210	5.4	15.0	-5	-2
CX	87	79-9	1103.0	1104.0	2	506	6	-50	2.8	34	0.8	-4	39	120	6.4	10.0	-5	-2
CX	88	78-32	980.6	981.4	-2	1020	7	-50	5.9	40	-0.7	-11	56	230	7.7	15.0	-5	-2
CX	89	78-39	985.8	988.8	2	47	9	-50	2.1	36	0.6	-1	50	42	6.2	12.0	-5	-2
CX	90	78-39	1045.0	1055.0	1	892	8	-50	2.8	30	-0.5	-4	39	140	6.1	8.2	-5	-2
CX	91	78-31	958.5	960.0	3	224	8	-50	2.9	31	0.7	-2	29	160	5.6	8.6	-5	-2
CX	92	78-36	235.0	240.0	-1	2070	5	-50	2.4	26	0.5	-6	44	110	5.1	7.7	-5	-2
CX	93	78-38	150.0	160.0	-1	13	5	-50	0.8	24	-0.2	4	28	18	4.0	5.7	-5	-2
CX	94	78-38	167.0	170.0	-3	4260	7	-50	2.8	38	-3.1	-25	39	170	7.3	10.0	-4	-2
CX	95	78-38	502.8	503.8	-3	744	3	-50	3.2	32	-6.2	-21	73	190	6.4	15.0	-5	-2
CX	96	78-39	203.6	206.6	2	619	3	-50	3.7	37	-0.6	-5	58	150	6.1	15.0	-5	-2
CX	97	78-40	497.6	498.6	-3	190	7	-84	2.6	37	-2.3	-17	60	86	6.9	8.4	-5	-2
CX	98	78-41	780.0	781.7	-2	837	4	-50	6.1	45	-2.2	-25	130	210	7.0	15.0	-5	-2
CX	99	78-43	882.6	883.6	2	286	6	-50	3.7	49	-1.3	-19	68	180	8.3	14.0	-5	-2
CX	100	78-43	967.5	968.5	-1	170	7	-50	2.4	35	-1.2	-7	48	69	6.5	8.0	-5	-2
CX	101	79-2	65.0	66.9	2	7	6	-50	2.7	30	-0.2	-1	45	55	4.8	11.0	-5	-2
CX	102	79-3	272.0	276.0	-4	-29	5	-69	3.0	36	-1.3	-10	120	140	5.7	17.0	-5	-2
CX	103	79-3	706.7	707.7	-3	661	3	-50	2.8	30	-2.0	-14	69	160	5.6	11.0	-4	-5
CX	104	75-49	293.5	295.0	-4	396	5	-82	2.6	36	-1.5	-11	51	180	5.7	8.8	-5	-2
CX	105	75-70	62.5	63.5	-1	585	5	-50	2.7	36	-1.3	-10	48	150	5.8	11.0	-5	-2
CX	106	75-71	38.0	39.2	-1	1020	4	-50	3.4	32	-1.9	-28	53	180	6.0	9.0	-5	-2
CX	107	75-72	172.9	173.4	-3	956	6	-50	3.7	47	-1.8	-15	56	140	8.6	15.0	-5	-2
CX	108	75-73	121.5	122.5	-1	1530	6	-50	5.5	39	-2.5	-21	57	210	7.9	12.0	-5	-2
CX	109	75-78	159.0	160.0	-1	709	5	-50	4.1	37	-1.4	-11	60	210	6.5	14.0	-5	-2
CX	110	75-87	248.0	249.0	-1	95	4	-50	1.8	31	0.4	-1	120	210	5.3	13.0	-5	-2
CX	111	75-91	141.5	143.5	-2	588	5	-50	3.1	23	-2.5	-15	64	120	4.8	7.4	-5	-2
CX	112	75-91	330.0	332.0	2	590	5	-50	3.8	35	-1.7	-15	58	200	6.9	13.0	-5	2
CX	113	74-7	137.5	138.5	2	96	7	-50	2.3	40	-0.6	-5	63	170	7.4	13.0	-5	-2

Becquerel Laboratories Inc.
6790 Kitimat Rd,. Unit 4,
Mississauga, Ont. L5N 5L9

Report: T01-00145.0
23-Jan-03

Client : NBDNRE, Min

Attention : Toon Pronk
NOTE : Samples difficult to analyz

		DDH	from	to	Na	Ta	Te	Tb	Th	Sn	W	U	Yb	Zn	Zr	Au Diff.
					%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
CX	58	80-26	1217.0	1218.5	0.64	0.8	-53	1.0	8.7	-100	12	1.5	-20	-100	-200	90
CX	59	75-28	368.5	370.0	-0.16	0.8	-34	1.0	8.3	-100	10	2.0	-7	-100	-200	97
CX	60	75-28	751.5	753.0	-0.14	0.7	-22	0.7	7.6	-100	16	3.3	-16	-100	330	29
CX	61	75-28	850.0	852.0	-0.29	1.0	-55	1.0	15.0	-100	44	3.8	-20	-100	250	-338
CX	62	70-29	113.0	114.5	0.73	0.9	-34	0.9	10.0	-100	13	1.9	-9	-100	220	-148
CX	63	70-30	73.7	75.7	0.26	0.8	-10	1.0	10.0	-100	13	1.9	-7	-100	-200	76
CX	64	74-11	108.0	109.5	-0.23	0.9	-44	1.0	11.0	-100	26	2.8	-16	120	260	34
CX	65	74-16	69.7	72.7	0.85	0.8	-26	0.7	7.2	-100	115	2.0	-4	-100	340	-32
CX	66	74-23	440.0	445.0	0.46	0.9	-36	1.1	8.7	-100	26	2.4	-10	-100	300	-46
CX	67	74-25	151.3	152.8	0.24	0.8	-10	0.9	8.6	-100	21	2.5	-5	-100	410	-1714
CX	68	74-35	595.0	597.0	-0.06	0.7	-10	0.7	7.0	-100	32	2.2	2	-100	290	12
CX	69	74-10	345.0	346.0	0.38	0.7	-27	0.7	7.5	-100	24	2.0	-8	-100	-200	2
CX	70	74-20	15.0	17.0	0.17	1.0	-10	1.0	8.9	-100	37	2.5	-6	-100	260	-59
CX	71	74-21	207.0	208.3	1.10	0.9	-38	1.0	8.3	-100	14	30.0	-16	-100	220	-26
CX	72	74-22	67.0	68.0	0.43	0.9	-10	1.0	8.8	-100	13	2.0	-4	-100	250	-49
CX	73	74-22	428.0	429.0	-0.22	0.9	-63	0.9	11.0	-100	10	3.6	-16	-100	-200	-57
CX	74	74-26	447.0	448.0	-1.00	0.5	-110	1.2	8.2	-240	54	-2.7	-36	-100	-200	-31
CX	75	74-37	93.5	95.0	0.61	1.0	-10	1.1	10.0	-100	15	2.3	-6	-100	630	-30
CX	76	74-39	163.5	164.5	1.20	0.9	-58	0.8	7.5	-100	12	-1.4	-23	-100	-200	-62
CX	77	74-39	198.0	199.0	0.36	0.9	-10	1.0	11.0	-100	30	2.7	-5	-100	-200	-125
CX	78	74-45	36.2	37.2	-0.32	1.1	-83	1.0	10.0	-100	40	-2.0	-15	-100	330	
CX	79	74-45	190.5	191.2	0.63	0.7	-10	0.9	8.1	-100	6	2.4	-5	-100	380	-37
CX	80	74-44	81.3	82.8	-0.24	0.8	-36	0.8	12.0	-100	39	8.0	-17	-100	-200	-1
CX	81	74-44	386.2	387.2	-0.84	0.6	-100	-0.5	4.5	-200	18	26.8	-34	-100	320	-14
CX	82	74-46	490.0	495.0	-1.80	0.8	-170	0.6	5.6	-310	-20	19.0	-53	-100	-410	-22
CX	83	79-4	42.8	44.3	-0.19	1.1	-37	1.0	11.0	-100	17	16.0	-11	-100	250	-65
CX	84	79-5	872.2	873.2	-0.30	0.7	-41	0.9	7.9	-100	40	-1.0	-18	100	330	-26
CX	85	79-6	398.5	400.0	-0.14	0.8	-22	1.0	8.9	-100	47	2.3	-6	-100	270	-11
CX	86	79-6	512.7	513.7	-0.11	1.2	-10	0.9	10.0	-100	100	2.6	-4	-100	-200	-20
CX	87	79-9	1103.0	1104.0	1.10	0.7	-42	0.9	8.0	-100	18	1.7	-13	-100	-200	-23
CX	88	78-32	980.6	981.4	-0.44	1.1	-60	1.0	11.0	-100	50	-1.5	-24	-100	-200	7
CX	89	78-39	985.8	988.8	-0.11	1.0	-10	0.9	10.0	-100	102	3.7	-5	-100	-200	-174
CX	90	78-39	1045.0	1055.0	-0.24	0.7	-40	0.9	7.5	-100	27	1.7	-11	-100	380	-45
CX	91	78-31	958.5	960.0	-0.15	0.9	-25	0.9	8.8	-100	40	2.1	-7	-100	320	7
CX	92	78-36	235.0	240.0	-0.19	0.7	-37	0.9	6.7	-100	36	1.3	-16	-100	-200	3
CX	93	78-38	150.0	160.0	0.05	0.8	-10	0.8	7.6	-100	38	4.2	4	-100	-200	24
CX	94	78-38	167.0	170.0	-0.09	1.1	-270	0.9	9.1	-100	66	-4.6	-13	-100	230	-44
CX	95	78-38	502.8	503.8	-0.11	0.9	-220	0.9	10.0	-220	40	-3.9	-23	230	280	-55
CX	96	78-39	203.6	206.6	0.08	1.0	-54	0.9	11.0	-100	50	5.1	-11	-100	-200	-50
CX	97	78-40	497.6	498.6	0.16	0.9	-180	1.2	9.1	-210	12	-3.2	-28	-100	330	-39
CX	98	78-41	780.0	781.7	-0.09	0.9	-180	1.0	12.0	-100	32	6.0	-20	-100	-200	6
CX	99	78-43	882.6	883.6	0.09	0.8	-150	0.9	10.0	-100	11	7.7	-10	-100	420	-39
CX	100	78-43	967.5	968.5	0.07	1.0	-75	1.0	8.8	-100	20	3.0	-14	-100	500	-148
CX	101	79-2	65.0	66.9	0.06	0.8	-10	0.7	8.6	-100	11	2.5	5	-100	280	59
CX	102	79-3	272.0	276.0	0.16	1.3	-110	1.3	11.0	-260	54	3.7	-36	-100	-200	185
CX	103	79-3	706.7	707.7	0.14	-0.5	-120	1.0	8.9	-100	38	-1.9	-28	280	320	-1
CX	104	75-49	293.5	295.0	0.16	0.8	-130	0.9	8.9	-230	33	4.6	-34	-100	-200	17
CX	105	75-70	62.5	63.5	0.12	1.0	-110	0.8	9.2	-100	15	6.8	-11	-100	-200	-90
CX	106	75-71	38.0	39.2	-0.07	0.9	-160	0.8	8.2	-100	17	-2.9	-11	-100	220	-19
CX	107	75-72	172.9	173.4	0.13	1.0	-150	1.0	10.0	-100	29	-2.7	-12	-100	250	-16
CX	108	75-73	121.5	122.5	-0.09	1.0	-220	1.1	11.0	-100	25	-3.9	-15	-100	370	-14
CX	109	75-78	159.0	160.0	0.09	0.9	-120	1.1	10.0	-100	23	4.4	-15	100	320	-107
CX	110	75-87	248.0	249.0	0.09	0.9	-10	1.0	10.0	-100	7	2.2	6	110	230	-39
CX	111	75-91	141.5	143.5	-0.11	0.6	-150	0.6	7.2	-100	20	-2.8	-22	1100	-200	-43
CX	112	75-91	330.0	332.0	-0.08	0.8	-150	1.1	10.0	-100	10	-2.8	-14	-100	250	-32
CX	113	74-7	137.5	138.5	0.10	1.0	-52	1.0	10.0	-100	64	2.1	-10	-100	-200	7

Becquerel Laboratories Inc.
6790 Kitimat Rd,. Unit 4,
Mississauga, Ont. L5N 5L9

Client : NBDNRE, Minerals Division

Attention : Toon Pronk

NOTE : Samples difficult to analyze and have elevated detection limits due to very high Sb/As

		DDH	from	to	Au oz/T	Au g/t	Au ppb	Wt	Sb	As	Ba	Br	Cd	Ce	Cs	Cr	Co
								grams	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
CX	114	74-7	592.2	594.2	0.017	0.583	583	19.60	616	8910	-450	-9.2	-46	58	13.0	130	11
CX	115	75-27	286.5	288.0	0.005	0.171	171	19.41	100	1140	210	-1.3	-5	65	11.0	220	9
CX	116	75-38	256.8	257.8	0.031	1.063	1063	20.89	968	12500	-650	-13.0	-66	56	7.6	240	10
CX	117	75-43	200.0	201.8	0.006	0.206	206	21.36	1360	5300	710	-10.0	-59	66	11.0	130	14
CX	118	75-47	25.5	26.5	0.001	0.034	34	17.76	98	103	280	0.6	-5	49	11.0	130	11
CX	119	75-50	158.2	159.2	0.050	1.714	1714	25.07	1160	17100	-840	-20.0	-88	51	8.7	260	19
CX	120	75-51	381.0	382.0	0.025	0.857	857	17.06	379	3850	-210	-4.5	-22	87	10.0	300	10
CX	121	75-52	148.6	150.0	0.002	0.069	69	20.05	72	553	250	0.6	-5	76	15.0	190	9
CX	122	75-52	249.5		0.002	0.069	69	21.06	200	1150	-100	-1.6	-11	74	11.0	220	10
CX	123	75-53	545.0	546.6	0.014	0.480	480	19.21	524	9280	590	-8.1	-42	57	8.8	190	14
CX	124	75-56	235.8	236.8	0.047	1.611	1611	18.96	1110	15500	-760	-17.0	-80	43	5.3	230	5
CX	125	75-58	450.7	452.3	0.040	1.371	1371	16.20	131	22600	-600	-17.0	-64	85	5.9	260	9
CX	126	75-59	176.3	177.8	0.020	0.686	686	19.37	222	9010	410	-7.5	59	58	8.3	200	10
CX	127	75-60	116.8	119.2	0.032	1.097	1097	18.63	1720	10900	-810	-16.0	-87	71	13.0	150	7
CX	128	75-65	107.6	108.6	0.009	0.309	309	14.92	48	5530	-160	-4.5	-18	71	7.6	230	12
CX	131	76-18	176.5	177.5	0.012	0.411	411	17.88	103	12700	-340	-9.7	-38	72	4.9	210	12
CX	132	76-18	535.0	537.8	0.020	0.686	686	20.58	160	11100	-310	-7.7	-34	66	11.0	210	16
CX	133	76-19	321.2	322.2	0.002	0.069	69	20.11	71	5120	220	-3.8	-16	74	3.1	290	12
CX	134	76-23	450.5	452.5	0.009	0.309	309	23.64	103	2980	340	-2.7	-13	77	18.0	170	15
CX	135	76-28	707.5	708.5	0.010	0.343	343	17.12	487	7830	640	-8.1	-35	83	12.0	220	12
CX	136	76-29	177.2	178.2	0.006	0.206	206	17.43	96	3860	140	-3.3	-13	79	12.0	180	7
CX	137	76-41	302.0	303.0	0.013	0.446	446	19.57	216	16800	-460	-13.0	-51	90	6.8	130	28
CX	138	75-36	600.0	601.0	0.004	0.137	137	26.09	685	3420	-290	-6.0	-33	86	7.8	180	16
CX	139	75-37	498.1	499.1	0.067	2.297	2297	12.40	4290	42600	-2200	-49.0	-240	120	6.4	-130	16
CX	140	75-32	840.0	841.0	0.034	1.166	1166	20.62	404	16700	820	-14.0	-57	83	10.0	280	14
CX	141	81-23	610.0	611.0	0.053	1.817	1817	19.47	50	1430	300	-1.3	-5	75	18.0	170	16
CX	143	76-51	811.3	812.3	0.007	0.240	240	19.89	124	8520	-240	-7.0	-27	87	4.4	290	8
CX	144	78-2	382.0	383.0	0.003	0.103	103	16.76	213	366	280	1.0	-5	80	17.0	220	13
CX	145	78-2	424.0	425.0	0.018	0.617	617	19.03	401	26900	-720	-23.0	-80	80	8.2	200	26
CX	146	78-4	142.0	143.0	0.101	3.463	3463	19.73	82	11200	280	-8.1	-31	58	9.3	250	11
CX	147	80-28	1022.5	1023.5	0.029	0.994	994	14.76	577	16800	-540	-14.0	-62	59	11.0	170	12
CX	148	80-29	956.5	958.0	0.010	0.343	343	23.98	96	5250	200	-4.4	20	100	9.0	300	14
CX	149	80-31	138.0	139.0	0.002	0.069	69	18.46	158	2050	230	-1.8	-11	76	18.0	160	14
CX	150	80-31	292.4	293.4	0.092	3.154	3154	17.94	1400	19200	810	-16.0	-91	69	6.9	280	17
CX	151	80-31	818.9	819.9	0.007	0.240	240	18.95	223	3470	430	-3.7	-17	51	15.0	200	14
CX	152	80-1	355.3	356.3	0.014	0.480	480	24.34	147	9030	650	-6.4	-30	77	8.4	230	[illegible]
CX	153	80-1	920.4	921.4	0.020	0.686	686	16.15	173	5420	180	-4.1	-19	83	6.8	[illegible]	13
CX	154	80-4	167.4	168.4	0.001	0.017	17	18.35	63	152	390	-0.5	-5	70	7.4	190	14
CX	155	80-1	748.4	749.4	0.005	0.171	171	17.39	242	7750	-240	-6.5	-28	77	4.1	290	13
CX	156	80-9	880.0	881.0	0.028	0.960	960	17.91	181	16700	-380	-12.0	-45	50	7.7	200	14
CX	157	80-12	972.5	973.5	0.096	3.291	3291	18.93	415	37200	-920	-28.0	-110	110	14.0	170	27
CX	158	80-15	955.7	956.7	0.006	0.206	206	18.36	44	10200	500	-8.1	-30	86	18.0	170	16
CX	159	80-16	777.8	778.8	0.044	1.509	1509	18.63	1620	24200	-900	-22.0	-110	48	5.5	270	12
CX	160	80-19	263.6	265.6	0.004	0.137	137	19.51	17	5610	310	-4.2	-14	67	4.3	220	11
CX	161	79-11	56.2	57.2	0.024	0.823	823	19.13	530	9580	-350	-9.5	-42	63	10.0	220	6
CX	162	80-3	760.0	761.0	0.022	0.754	754	17.61	74	12000	650	-9.2	-30	69	10.0	150	14
CX	163	80-35	1013.0	1014.0	0.001	0.017	17	15.38	103	1080	120	-1.1	12	71	14.0	340	8
CX	164	81-2	873.4	874.4	0.001	0.017	17	20.57	55	212	600	-0.5	-5	85	24.0	210	9
CX	165	81-5	641.4	642.4	0.002	0.069	69	19.13	38	452	110	-0.5	-5	75	12.0	280	12
CX	166	81-5	96.6	97.6	0.009	0.309	309	16.02	109	2420	690	-2.1	-14	90	20.0	190	22
CX	167	81-5	915.6	916.6	0.006	0.206	206	23.54	83	4200	-110	-3.3	-13	63	11.0	210	9
CX	168	81-7	350.0	351.5	0.025	0.857	857	14.04	93	4260	140	-3.4	-13	45	4.9	4[illegible]	7
CX	169	81-7	1014.0	1015.0	0.002	0.069	69	19.95	75	9120	220	-7.0	-25	65	10.0	250	11
CX	170	81-10	156.0	160.0	0.252	8.640	8640	15.06	222	18000	510	-11.0	-51	89	10.0	210	11
CX	171	81-9	336.3	337.3	0.027	0.926	926	19.90	307	8780	-260	-4.0	-31	78	11.0	260	11
CX	172	81-12	1361.8	1362.8	0.007	0.240	240	18.62	189	11000	340	-8.4	-34	84	10.0	250	9

Becquerel Laboratories Inc.
6790 Kitimat Rd,. Unit 4,
Mississauga, Ont. L5N 5L9

Client : NBDNRE, Min

Attention : Toon Pronk
NOTE : Samples difficult to analyz

		DDH	from	to	Eu	Au	Hf	Ir	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Se	Ag
					ppm	ppb	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
CX	114	74-7	592.2	594.2	-3	666	4	-50	3.0	30	-2.2	-40	60	180	6.1	10.0	-5	-2
CX	115	75-27	286.5	288.0	-1	160	8	-50	3.0	29	-0.2	-2	38	140	5.6	8.1	-5	-2
CX	116	75-38	256.8	257.8	-3	1510	6	-91	2.7	32	-2.7	-23	31	110	5.7	6.3	-5	-2
CX	117	75-43	200.0	201.8	-6	350	5	-53	3.5	37	-3.4	-20	50	210	6.6	13.0	-5	-2
CX	118	75-47	25.5	26.5	1	13	3	-50	1.8	24	-0.2	-1	68	100	4.3	8.4	-5	-2
CX	119	75-50	158.2	159.2	-3	2300	2	-99	5.4	30	-3.5	-30	77	150	5.4	8.8	-5	-2
CX	120	75-51	381.0	382.0	-1	704	14	-50	2.7	41	-0.9	-7	45	150	6.5	8.4	-5	-2
CX	121	75-52	148.6	150.0	1	99	6	-50	3.1	35	0.5	-1	38	170	5.7	10.0	-5	-2
CX	122	75-52	249.5		1	275	6	-50	2.0	35	-0.4	-3	37	120	5.5	9.2	-5	-2
CX	123	75-53	545.0	546.6	-2	589	2	-57	3.6	27	-1.6	-14	67	150	4.3	10.0	-5	-2
CX	124	75-56	235.8	236.8	-3	2280	3	-90	2.3	26	-3.2	-27	32	150	5.3	4.3	-5	-2
CX	125	75-58	450.7	452.3	-1	1620	12	-50	2.3	39	-2.5	-21	44	130	7.7	9.4	-5	-2
CX	126	75-59	176.3	177.8	2	973	7	-50	2.7	31	-1.4	-15	45	150	4.4	9.3	-5	-2
CX	127	75-60	116.8	119.2	-5	1430	4	-120	4.0	33	-3.7	-29	96	230	6.8	13.0	-5	-2
CX	128	75-65	107.6	108.6	2	381	6	-50	3.2	36	0.7	-5	52	110	6.2	10.0	-5	-2
CX	131	76-18	176.5	177.5	1	481	6	-50	2.5	31	-1.4	-12	46	140	5.6	8.9	-5	-2
CX	132	76-18	535.0	537.8	1	709	5	-50	3.7	30	-1.3	-11	78	180	5.3	11.0	-5	-2
CX	133	76-19	321.2	322.2	1	55	10	-50	2.4	36	0.6	-5	37	66	6.3	10.0	-5	-2
CX	134	76-23	450.5	452.5	3	405	4	-50	3.5	37	-0.5	-4	69	240	6.6	17.0	-5	-2
CX	135	76-28	707.5	708.5	-3	482	6	-50	2.8	37	-1.9	-11	67	160	5.8	11.0	-5	-2
CX	136	76-29	177.2	178.2	3	296	5	-50	2.6	31	-0.4	-4	44	160	5.2	10.0	-5	-2
CX	137	76-41	302.0	303.0	2	393	5	-50	4.3	40	-3.4	-16	45	190	5.7	16.0	-5	-2
CX	138	75-36	600.0	601.0	-4	130	8	-50	3.9	37	-1.3	-10	41	110	6.3	13.0	-5	-2
CX	139	75-37	498.1	499.1	-9	3890	-4	-120	5.6	21	-10.0	-224	51	190	7.4	8.4	-15	-7
CX	140	75-32	840.0	841.0	-3	1690	7	-50	3.1	40	-2.2	-37	100	190	8.7	7.6	-4	-2
CX	141	81-23	610.0	611.0	2	180	6	-50	3.7	36	0.4	-1	62	220	6.1	14.0	-5	-2
CX	143	76-51	811.3	812.3	-1	499	11	-50	3.2	43	-1.0	-9	39	100	6.8	11.0	-5	-2
CX	144	78-2	382.0	383.0	3	110	8	-50	1.4	35	-0.2	-3	47	170	5.8	9.3	-5	-2
CX	145	78-2	424.0	425.0	-1	813	3	-58	5.8	37	-2.9	-61	92	210	6.7	19.0	-5	-2
CX	146	78-4	142.0	143.0	-1	4130	4	-50	2.8	28	-1.1	-23	40	180	5.6	10.0	-5	-2
CX	147	80-28	1022.5	1023.5	-3	1500	3	-50	5.6	35	-2.2	-20	58	190	6.0	11.0	-5	-2
CX	148	80-29	956.5	958.0	3	489	17	-50	3.2	50	-1.3	-6	45	120	8.0	13.0	-5	-2
CX	149	80-31	138.0	139.0	2	110	5	-50	4.6	32	0.7	-3	53	210	5.6	12.0	-5	-2
CX	150	80-31	292.4	293.4	-5	4250	9	-77	2.8	37	-3.9	-29	37	140	6.4	10.0	-5	-2
CX	151	80-31	818.9	819.9	-1	390	7	-50	4.1	30	-0.6	17	59	170	5.5	10.0	-5	-2
CX	152	80-1	355.3	356.3	-1	836	7	-50	2.7	36	-1.1	-9	73	170	6.6	10.0	-5	-2
CX	153	80-1	920.4	921.4	-1	764	8	-50	3.0	40	-0.7	-6	46	130	6.0	16.0	-5	-2
CX	154	80-4	167.4	168.4	2	-2	5	-50	3.5	32	0.3	-1	45	110	5.2	12.0	-5	-2
CX	155	80-1	748.4	749.4	-1	261	9	-50	2.9	41	-1.0	-8	34	92	6.8	10.0	-5	-2
CX	156	80-9	880.0	881.0	-3	1520	4	-50	3.3	27	-1.6	-14	51	150	5.1	10.0	-5	-2
CX	157	80-12	972.5	973.5	-2	4890	5	-50	6.3	54	-3.8	-35	110	270	10.2	23.7	-5	-2
CX	158	80-15	955.7	956.7	1	293	5	-50	4.4	42	-1.0	-9	68	220	7.4	15.0	-5	-2
CX	159	80-16	777.8	778.8	-5	1620	-2	-140	2.8	20	-4.7	-36	84	140	4.2	7.8	-5	-2
CX	160	80-19	263.6	265.6	2	110	9	-50	3.1	33	0.7	-4	37	100	5.8	11.0	-5	-2
CX	161	79-11	56.2	57.2	-3	1140	3	-50	3.5	23	-1.6	-13	77	140	4.7	8.4	-5	-2
CX	162	80-3	760.0	761.0	2	1170	5	-50	4.1	32	-1.1	-9	59	210	6.5	13.0	-5	-2
CX	163	80-35	1013.0	1014.0	-1	10	7	-50	1.4	36	0.5	47	34	130	5.2	3.6	-5	-2
CX	164	81-2	873.4	874.4	2	19	6	-50	2.0	42	0.4	31	56	280	7.0	14.0	-5	-2
CX	165	81-5	641.4	642.4	2	68	11	-50	2.5	33	-0.2	-1	30	120	4.6	11.0	-5	-2
CX	166	81-5	96.6	97.6	3	460	7	-50	2.9	39	-0.6	-9	84	220	2.6	18.0	14	-2
CX	167	81-5	915.6	916.6	2	259	9	-50	2.9	30	0.6	-4	39	150	5.5	9.5	-5	-2
CX	168	81-7	350.0	351.5	2	1030	3	-50	1.2	20	-0.2	52	48	76	3.3	2.8	-5	-2
CX	169	81-7	1014.0	1015.0	-1	120	4	-50	3.2	32	-0.8	219	53	220	5.2	13.0	-5	-2
CX	170	81-10	156.0	160.0	-5	6980	8	-50	3.3	39	-1.8	66	55	230	7.8	14.0	-9	-2
CX	171	81-9	336.3	337.3	-1	1190	5	-50	2.7	30	-1.1	-9	41	210	6.4	6.7	-5	-2
CX	172	81-12	1361.8	1362.8	-1	352	9	-50	4.6	39	-1.3	-25	49	210	6.6	13.0	-5	-2

Becquerel Laboratories Inc.
6790 Kitimat Rd,. Unit 4,
Mississauga, Ont. L5N 5L9

Report: T01-00145.0
23-Jan-03

Client : NBDNRE, Min

Attention : Toon Pronk
NOTE : Samples difficult to analyz

		DDH	from	to	Na	Ta	Te	Tb	Th	Sn	W	U	Yb	Zn	Zr	Au Diff.
					%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
CX	114	74-7	592.2	594.2	-0.14	0.8	-170	0.9	7.7	-100	35	-2.9	-27	120	370	-14
CX	115	75-27	286.5	288.0	0.30	0.8	-25	0.7	8.4	-100	23	2.1	-5	-100	-200	7
CX	116	75-38	256.8	257.8	-0.18	0.9	-240	0.8	7.0	-200	39	-4.2	-29	110	270	-42
CX	117	75-43	200.0	201.8	-0.23	1.2	-200	1.1	9.3	-230	50	-3.6	-31	-100	310	-70
CX	118	75-47	25.5	26.5	0.49	0.7	-10	0.9	6.8	-100	22	1.4	-4	-100	210	62
CX	119	75-50	158.2	159.2	-0.22	1.1	-300	0.9	6.6	-200	34	-5.6	-28	-100	360	-34
CX	120	75-51	381.0	382.0	-0.08	0.8	-73	0.9	10.0	-100	46	11.0	-18	-100	460	18
CX	121	75-52	148.6	150.0	0.24	0.8	-10	1.0	9.1	-100	19	2.4	4	-100	260	-44
CX	122	75-52	249.5		0.06	0.7	-34	0.9	8.8	-100	21	2.3	-14	-100	340	-301
CX	123	75-53	545.0	546.6	-0.12	0.8	-140	0.6	8.1	-100	20	12.0	-21	-100	230	-23
CX	124	75-56	235.8	236.8	-0.24	0.6	-270	0.8	7.1	-230	37	-5.0	-32	-100	-200	-41
CX	125	75-58	450.7	452.3	-0.10	0.9	-210	0.8	8.9	-100	30	-3.8	-14	-100	430	-18
CX	126	75-59	176.3	177.8	-0.08	1.1	-120	0.8	8.1	-100	30	8.9	-18	-100	310	-42
CX	127	75-60	116.8	119.2	-0.36	0.9	-320	1.0	8.8	-310	33	-5.5	-47	-100	-410	-30
CX	128	75-65	107.6	108.6	1.10	0.9	-57	1.0	8.6	-100	11	1.9	-10	-100	300	-23
CX	131	76-18	176.5	177.5	0.10	0.8	-120	0.8	9.0	-100	-6	3.0	-11	-100	-200	-17
CX	132	76-18	535.0	537.8	-0.07	1.0	-110	0.9	9.1	-100	20	3.1	-13	-100	-200	-3
CX	133	76-19	321.2	322.2	1.10	0.8	-48	1.0	8.6	-100	12	1.4	-10	-100	280	20
CX	134	76-23	450.5	452.5	0.10	1.0	-40	1.1	10.0	-100	59	2.4	-12	-100	-200	-31
CX	135	76-28	707.5	708.5	-0.12	0.9	-110	0.9	10.0	-100	42	14.0	-26	-100	-200	-41
CX	136	76-29	177.2	178.2	0.20	0.9	-39	0.9	8.1	-100	67	1.6	-8	-100	320	-44
CX	137	76-41	302.0	303.0	-0.11	1.1	-160	1.2	10.0	-100	21	15.0	-19	-100	230	12
CX	138	75-36	600.0	601.0	-0.18	0.6	-110	1.2	9.2	-230	32	2.2	-35	-100	-200	5
CX	139	75-37	498.1	499.1	-0.99	1.4	-890	0.9	8.7	-550	46	-15.0	-86	-100	740	-69
CX	140	75-32	840.0	841.0	-0.15	1.1	-190	1.1	10.0	-100	44	-3.5	-20	-100	380	-45
CX	141	81-23	610.0	611.0	0.10	1.0	-10	0.9	10.0	-100	35	2.6	-5	-100	-200	90
CX	143	76-51	811.3	812.3	-0.07	1.0	-83	1.0	10.0	-100	40	2.7	-17	-100	390	-108
CX	144	78-2	382.0	383.0	-0.05	0.5	-25	0.9	8.6	-100	67	5.8	-16	-100	300	-7
CX	145	78-2	424.0	425.0	-0.17	1.1	-250	1.0	11.0	-100	28	-4.9	-19	-100	-200	-32
CX	146	78-4	142.0	143.0	0.11	0.8	-94	0.8	7.5	-100	55	-1.9	-10	-100	-200	-19
CX	147	80-28	1022.5	1023.5	-0.19	1.0	-190	0.6	8.6	-100	41	-3.7	-26	-100	350	-51
CX	148	80-29	956.5	958.0	0.68	1.1	-55	1.2	12.0	-100	17	4.4	-11	-100	750	-43
CX	149	80-31	138.0	139.0	0.16	0.9	-32	0.7	8.3	-100	23	1.3	-12	-100	-200	-60
CX	150	80-31	292.4	293.4	-0.40	1.0	-310	0.9	7.7	-290	56	-5.6	-46	-100	590	-35
CX	151	80-31	818.9	819.9	0.32	0.8	-56	0.9	8.6	-100	24	2.0	-19	-100	-200	-63
CX	152	80-1	355.3	356.3	-0.08	1.0	-91	1.0	9.0	-100	16	5.2	-13	-100	290	-74
CX	153	80-1	920.4	921.4	-0.07	0.9	-57	1.0	8.5	-100	22	3.8	-16	-100	-200	-11
CX	154	80-4	167.4	168.4	1.40	0.8	-10	0.8	9.4	-100	1	2.1	5	-100	-200	112
CX	155	80-1	748.4	749.4	-0.10	0.8	-83	0.9	8.7	-100	17	3.8	-17	-100	340	-52
CX	156	80-9	880.0	881.0	-0.11	0.7	-130	0.6	7.0	-100	18	-2.7	-15	-100	-200	-58
CX	157	80-12	972.5	973.5	-0.27	1.3	-320	1.7	14.0	-200	53	7.9	-24	-100	-200	-49
CX	158	80-15	955.7	956.7	0.70	1.0	-86	1.1	12.0	-100	14	-1.8	-12	-100	-200	-42
CX	159	80-16	777.8	778.8	-0.43	0.8	-320	0.6	5.2	-330	22	-6.5	-49	-100	-420	-7
CX	160	80-19	263.6	265.6	0.78	0.9	-41	0.9	8.5	-100	4	1.6	-8	-100	580	20
CX	161	79-11	56.2	57.2	-0.19	0.7	-140	-0.5	6.7	-220	25	-2.5	-35	-100	470	-39
CX	162	80-3	760.0	761.0	-0.08	1.0	-95	1.2	11.0	-100	22	3.5	-12	-100	310	-55
CX	163	80-35	1013.0	1014.0	-0.04	0.7	-23	0.8	8.0	-100	145	2.1	-6	-100	370	42
CX	164	81-2	873.4	874.4	0.13	1.2	-10	1.0	11.0	-100	55	3.3	4	-100	210	-11
CX	165	81-5	641.4	642.4	0.08	0.8	-10	0.7	9.2	-100	27	2.2	4	-100	340	1
CX	166	81-5	96.6	97.6	0.19	1.1	-52	1.2	12.0	-100	54	221.0	-4	-100	-200	-49
CX	167	81-5	915.6	916.6	0.40	0.8	-37	1.0	8.1	-100	35	3.2	-7	-100	380	-26
CX	168	81-7	350.0	351.5	-0.05	-0.5	-35	-0.5	5.8	-100	30	2.5	-6	-100	-200	-20
CX	169	81-7	1014.0	1015.0	0.11	0.8	-71	0.7	8.4	-100	46	1.9	-8	-100	200	-75
CX	170	81-10	156.0	160.0	-0.14	0.9	-150	1.2	11.0	-100	60	6.2	-19	-100	-200	19
CX	171	81-9	336.3	337.3	-0.13	1.1	-91	0.9	9.1	-100	45	-1.9	-21	-100	-200	-29
CX	172	81-12	1361.8	1362.8	-0.12	1.1	-100	1.0	12.0	-100	53	3.0	-20	-100	330	-47

Becquerel Laboratories Inc.
6790 Kitimat Rd,. Unit 4,
Mississauga, Ont. L5N 5L9

Client : NBDNRE, Minerals Division

Attention : Toon Pronk

NOTE : Samples difficult to analyze and have elevated detection limits due to very high Sb/As

		DDH	from	to	Au oz/T	Au g/t	Au ppb	Wt	Sb	As	Ba	Br	Cd	Ce	Cs	Cr	Co
								grams	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
CX	173	81-12	1477.2	1478.2	0.005	0.171	171	18.71	248	3020	-150	-3.2	-18	74	9.5	270	13
CX	174	80-32	302.0	303.0	0.019	0.651	651	18.91	247	13300	-330	-11.0	-42	51	8.6	270	13
CX	175	80-36	911.0	913.0	0.416	14.263	14263	17.61	163	24600	980	-17.0	-64	81	14.0	200	13
CX	176	81-3	1115.0	1116.8	0.032	1.097	1097	17.52	107	13000	-260	-8.8	-33	63	14.0	210	14
CX	177	81-3	1741.7	1742.7	0.008	0.274	274	17.21	144	2810	210	-2.4	-12	63	15.0	240	13
CX	178	81-8	835.5	837.5	0.122	4.183	4183	18.31	284	18600	-400	-14.0	-50	86	13.0	220	11
CX	179	87-10	76.2	77.2	0.014	0.480	480	15.01	68	8160	440	-5.2	-23	73	7.3	230	9
CX	180	87-13	295.0	296.0	0.011	0.377	377	16.35	411	11300	340	-11.0	-31	68	5.3	170	13
CX	181	78-25	480.0	482.2	0.026	0.891	891	21.88	94	9980	390	-6.9	-22	86	12.0	190	20
CX	182	78-27	517.0	518.2	0.017	0.583	583	17.13	158	2930	210	-3.2	-5	53	10.0	240	10
CX	183	78-27	775.7	777.2		0.000	0	20.26	125	7040	260	-5.9	22	73	6.8	220	11
CX	184	78-28	52.0	52.4	0.230	7.886	7886	23.49	177	29300	820	-19.0	-52	66	10.0	170	12
CX	185	78-30	91.8	93.4	0.072	2.469	2469	24.36	136	21900	520	-14.0	-42	79	15.0	160	18
CX	186	78-33	302.0	315.0	0.053	1.817	1817	18.13	103	3400	160	-2.8	-5	55	6.5	230	-5
CX	187	78-12	511.3	512.4	0.002	0.069	69	21.11	21	139	510	-0.5	-5	87	7.7	150	26
CX	188	78-19	505.0	506.2	0.001	0.017	17	19.11	142	10100	310	-7.1	-23	82	6.3	160	14
CX	189	81-19	655.8	656.8	0.051	1.749	1749	19.68	1320	22100	-510	-23.0	-77	67	13.0	210	13
CX	190	81-21	1340.0	1343.0	0.029	0.994	994	17.86	549	15300	290	-14.0	-43	59	10.0	270	14
CX	191	81-23	610.0	611.0	0.053	1.817	1817	20.12	417	9830	430	-7.4	-30	78	15.0	160	16
CX	192	81-10	210.0	216.5	0.021	0.720	720	17.42	2180	2290	-480	-15.0	-73	73	10.0	220	15
CX	193	81-14	307.5	308.7	0.115	3.943	3943	16.99	63	30700	610	-18.0	-51	74	7.9	150	17
CX	194	83-1	257.2	258.4	0.007	0.240	240	16.24	283	9570	290	-8.2	-26	71	8.4	330	13

Becquerel Laboratories Inc.
6790 Kitimat Rd,. Unit 4,
Mississauga, Ont. L5N 5L9

Client : NBDNRE, Min

Attention : Toon Pronk
NOTE : Samples difficult to analyz

		DDH	from	to	Eu	Au	Hf	Ir	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Se	Ag
					ppm	ppb	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
CX	173	81-12	1477.2	1478.2	-1	283	10	-52	1.8	32	-0.6	-5	27	190	6.1	6.1	-5	-2
CX	174	80-32	302.0	303.0	-1	1230	9	-50	2.1	29	-1.4	107	40	140	5.7	7.1	-5	-2
CX	175	80-36	911.0	913.0	2	19500	9	-50	3.0	43	-2.3	-30	54	210	7.7	12.0	-5	-2
CX	176	81-3	1115.0	1116.8	-1	1390	4	-50	3.3	32	-1.2	-24	49	220	5.5	12.0	-5	-2
CX	177	81-3	1741.7	1742.7	-1	362	5	-50	3.2	32	-0.2	287	62	200	5.6	12.0	-5	-2
CX	178	81-8	835.5	837.5	-1	3800	8	-50	3.1	47	-1.7	-21	54	170	6.6	13.0	-5	-2
CX	179	87-10	76.2	77.2	2	497	9	-50	3.1	39	-0.7	-10	34	120	6.8	10.0	-5	-2
CX	180	87-13	295.0	296.0	-3	334	6	-50	3.5	36	-0.8	-8	38	130	6.1	12.0	-5	-2
CX	181	78-25	480.0	482.2	1	980	5	-50	4.6	36	0.9	-6	68	230	6.3	17.0	10	-2
CX	182	78-27	517.0	518.2	-1	592	5	-50	2.0	22	0.3	-2	47	150	3.5	8.5	-5	-2
CX	183	78-27	775.7	777.2	-1	332	8	-50	2.8	34	-0.5	-4	29	120	5.2	8.9	-5	-2
CX	184	78-28	52.0	52.4	-1	11900	5	-50	3.1	32	-1.7	-24	56	200	6.5	7.9	-5	-2
CX	185	78-30	91.8	93.4	1	3240	4	-50	4.3	34	-1.4	101	79	230	6.6	16.0	-5	-2
CX	186	78-33	302.0	315.0	2	1940	6	-50	2.3	29	0.3	-3	34	120	5.0	7.0	11	-2
CX	187	78-12	511.3	512.4	2	18	5	-50	5.5	34	0.4	3	87	180	5.6	14.0	-5	-2
CX	188	78-19	505.0	506.2	2	370	5	-50	3.7	41	-1.3	-7	41	150	6.9	12.0	-5	-2
CX	189	81-19	655.8	656.8	-4	1950	4	-120	3.3	40	-2.2	-23	62	240	7.1	15.0	-5	-2
CX	190	81-21	1340.0	1343.0	-2	1210	3	-50	3.1	30	-1.2	-12	34	160	5.9	7.6	-5	-2
CX	191	81-23	610.0	611.0	-2	1380	5	-50	4.4	40	-1.0	-8	50	270	7.2	15.0	-5	-2
CX	192	81-10	210.0	216.5	-5	729	4	-110	2.0	30	-2.3	-38	28	130	4.4	8.0	-5	-4
CX	193	81-14	307.5	308.7	-3	5210	5	-50	4.1	38	-1.4	-16	62	180	7.0	15.0	-5	-2
CX	194	83-1	257.2	258.4	2	343	5	-50	2.8	26	-0.7	-7	89	150	4.5	9.4	-5	-2

Becquerel Laboratories Inc.
6790 Kitimat Rd,. Unit 4,
Mississauga, Ont. L5N 5L9

Report: T01-00145.0
23-Jan-03

Client : NBDNRE, Min

Attention : Toon Pronk
NOTE : Samples difficult to analyz

		DDH	from	to	Na	Ta	Te	Tb	Th	Sn	W	U	Yb	Zn	Zr	Au Diff.
					%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
CX	173	81-12	1477.2	1478.2	-0.10	1.2	-56	0.9	10.0	-100	82	3.2	-21	-100	440	-65
CX	174	80-32	302.0	303.0	-0.14	0.9	-120	0.9	8.5	-100	38	3.0	-19	-100	390	-89
CX	175	80-36	911.0	913.0	-0.16	1.1	-180	1.1	11.0	-100	138	4.1	-16	-100	250	-37
CX	176	81-3	1115.0	1116.8	-0.09	0.8	-92	0.9	8.9	-100	38	3.5	-14	-100	-200	-27
CX	177	81-3	1741.7	1742.7	0.18	0.9	-32	0.9	8.8	-100	45	2.1	-8	-100	-200	-32
CX	178	81-8	835.5	837.5	-0.17	0.9	-140	1.1	10.0	-100	63	7.5	-19	-100	290	9
CX	179	87-10	76.2	77.2	0.11	0.9	-61	1.1	8.4	-100	12	1.8	-12	-100	420	-4
CX	180	87-13	295.0	296.0	-0.31	0.9	-71	0.8	10.0	-100	13	-1.7	-27	-100	-200	11
CX	181	78-25	480.0	482.2	-0.12	1.1	-50	0.9	11.0	-100	29	4.5	-12	-100	-200	-10
CX	182	78-27	517.0	518.2	-0.12	0.8	-22	-0.5	7.1	-100	46	1.1	-7	-100	-200	-2
CX	183	78-27	775.7	777.2	0.39	0.6	-42	0.8	7.3	-100	16	1.3	-11	-100	290	
CX	184	78-28	52.0	52.4	-0.28	0.8	-140	0.8	8.9	-100	60	9.4	-15	-100	-200	-51
CX	185	78-30	91.8	93.4	-0.23	1.0	-100	1.0	12.0	-100	40	4.4	-13	-100	-200	-31
CX	186	78-33	302.0	315.0	-0.09	0.6	-22	0.8	7.6	-100	63	3.3	-6	-100	-200	-7
CX	187	78-12	511.3	512.4	0.77	1.0	-10	1.1	10.0	-100	-1	3.2	4	-100	-200	74
CX	188	78-19	505.0	506.2	-0.17	0.7	-53	1.0	9.4	-100	11	1.6	-11	-100	270	-2058
CX	189	81-19	655.8	656.8	-0.95	1.1	-190	0.9	9.2	-250	56	-4.6	-38	-100	-200	-12
CX	190	81-21	1340.0	1343.0	-0.45	0.7	-100	0.8	7.0	-100	58	-2.5	-25	-100	220	-22
CX	191	81-23	610.0	611.0	0.39	1.0	-68	0.9	10.0	-100	28	-1.7	-23	-100	-200	24
CX	192	81-10	210.0	216.5	-1.50	-0.5	-170	1.0	7.6	-350	62	6.8	-54	-100	630	-1
CX	193	81-14	307.5	308.7	-0.24	0.9	-120	0.9	10.0	-100	43	-3.0	34	-100	280	-32
CX	194	83-1	257.2	258.4	-0.28	0.8	-58	0.6	8.2	-100	14	2.7	-22	-100	250	-43